THE TEXTILE ASSOCIATION (INDIA)  
A.T.A(REVISED) EXAMINATION 2017  
PART II-PAPER-A 2.3  
PRINCIPLES OF TEXTILE WET PROCESSING  

Date: 25.12.2017  
Marks: 100  
Time: 2.00pm to 5.00pm  

Instructions:  
1. Attempt six questions of which Q1 is compulsory  
2. Answer each next question on new page  
3. Figures to the right indicate full marks  
4. Illustrate your answers with sketches and flow charts wherever necessary  
5. Use of nonprogrammable electronic pocket calculators permitted  
6. Mobile and any other communication devices are not allowed in the exam, hall.  
7. Assume suitable data wherever necessary  

Q1  Answer in Two lines  
  i. What is Keratin?  
  ii. What is Zwitterion structure?  
  iii. What is hydrophilicity?  
  iv. What is bleaching?  
  v. What is scouring?  
  vi. Define mordent.  
  vii. Define hydrogen bonding.  
  viii. What is resist style printing?  
  ix. What is color fastness to light?  
  x. Define biopolishing  

Q2  Discuss dyeing of cotton fabrics using reactive dyes.  

Q3  Discuss degumming of silk fabrics by alkaline and enzymatic processes.  

Q4  Discuss bleaching of silk by reduction and oxidation processes.  

Q5  a. Describe dyeing of acrylic fibers with cationic dyes.  
    b. Describe dyeing of polyester fibers with disperse dyes.  

Q6  a. Write a note on ‘discharge style printing’ of silk fabric  
    b. Discuss the importance of steam setting in printing  

Q7  a. Describe ‘transfer printing’  
    b. Write a note on ‘pigment printing’ in cotton textiles  

Q8  a. Discuss finishing of textiles with a flow diagram.  
    b. Write a note on ‘sanforising’  

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